

**Amendments to the Claims:**

Claim 1 (previously canceled)

Claim 2 (previously amended): The optical pulse source of claim 11 wherein the feedback circuit adjusts the shape of pulses passing through the filter to produce RZ pulses.

Claim 3 (previously amended): The optical pulse source of claim 11 wherein the light source comprises a distributed feedback laser.

Claim 4 (previously amended): The optical pulse source of claim 11 wherein the Bragg grating is coupled to the source by polarization maintaining optical fiber.

Claim 5 (previously amended): The optical pulse source of claim 11 wherein the Bragg grating comprises a fiber Bragg grating stabilized by disposition in a controlled temperature environment.

Claim 6 (previously amended): The optical pulse source of claim 11 wherein the Bragg grating is tunable.

Claims 7 - 9 (previously canceled)

Claim 10 (previously amended): The optical pulse source of claim 11 wherein the light source comprises a temperature adjustable distributed feedback laser and the feedback circuit comprises an electronic circuit responsive to the tapped signals for adjusting the temperature of the laser.

Claim 11 (previously new): An optical pulse source to generate RZ pulses at a wavelength  $\lambda$  comprising:

- a modulated light source for generating optical pulses of light over an optical spectrum including  $\lambda$ , the source modulated in power and frequency;

- a Bragg grating having a filter response, the grating coupled to the light source and stabilized so that the filter response is over a range overlapping at least part of the optical spectrum of the source;

- a tilted grating tap coupled to the light source and the Bragg grating for tapping a signal representative of the light supplied to the grating and a signal representative of the light reflected or transmitted by the grating; and,

- a feedback circuit responsive to the tapped signals for adjusting the wavelength  $\lambda$  of the light source.

Claim 12 (previously new): The optical pulse source of claim 11 wherein the tilted grating tap comprises a PM (polarization maintaining) fiber.

Claim 13 (previously new): The optical pulse source of claim 11 wherein a wavelength response curve represents the optical transfer function of the grating and the wavelength  $\lambda$  of the light source is locked to an edge of the grating wavelength response curve.

Claim 14 (previously new): An optical pulse source to generate RZ pulses at a wavelength  $\lambda$  comprising:

a modulated light source for generating optical pulses of light over an optical spectrum including  $\lambda$ , the source modulated in power and frequency;

a Bragg grating having a filter response, the grating coupled to the light source and stabilized so that the filter response is over a range overlapping at least part of the optical spectrum of the source;

a fused fiber PM coupler coupled to the light source and the Bragg grating for tapping a signal representative of the light supplied to the grating and a signal representative of the light reflected or transmitted by the grating; and,

a feedback circuit responsive to the tapped signals for adjusting the wavelength  $\lambda$  of the light source.

15 (previously new): The optical pulse source of claim 14 wherein the feedback circuit adjusts the shape of pulses passing through the filter to produce RZ pulses.

Claim 16 (previously new) : The optical pulse source of claim 14 wherein the light source comprises a distributed feedback laser.

Claim 17 (previously new): The optical pulse source of claim 14 wherein the Bragg grating is coupled to the source by polarization maintaining optical fiber.

Claim 18 (previously new): The optical pulse source of claim 14 wherein the Bragg grating comprises a fiber Bragg grating stabilized by disposition in a controlled temperature environment.

Claim 19 (previously new): The optical pulse source of claim 14 wherein the Bragg grating is tunable.

Claim 20 (previously new): The optical pulse source of claim 14 wherein the light source comprises a temperature adjustable distributed feedback laser and the feedback circuit comprises an electronic circuit responsive to the tapped signals for adjusting the temperature of the laser.

Claim 21 (previously new): The optical pulse source of claim 14 wherein a wavelength response curve represents the optical transfer function of the grating and the wavelength  $\lambda$  of the light source is locked to an edge of the grating wavelength response curve.